



Baseline Levels of Service and Cost Estimation: Overview

**SEEDS Community Workshop,
February 5-7, 2002**

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Levels of Service and Cost Estimation Study Goals

Goal: Develop baseline levels of service for data service providers:

- This workshop will be primarily focused on establishing a baseline set of levels of service that users will need from the SEEDS data service providers (and that providers need from each other).**
- The baseline will be fed into guidelines and recommendations to be given to ESE by the SEEDS office.**
- Use a draft set of requirements associated with LOS to support cost estimation.**
- LOS and associated requirements will not embody or drive an architecture.**

Goal: Develop a cost estimation model that estimates life cycle costs for data service providers:

- Model to be driven by levels of service and requirements;**
- Model to support estimating individual data service provider costs and architecture trades.**

Approach

- 1. Data service provider cost estimation must be grounded on an understanding of baseline levels of service and requirements.**
 - Define a set of ‘functional areas’ that span all significant areas of cost.**
 - Develop a model that relates levels of service / requirements and model parameters (metrics) for the functional areas.**
 - Establish baseline levels of service with the community at this workshop.**
 - Develop a working set of data service provider types – architecture components – map levels of service and associated requirements to these.**
- 2. Use Cost Estimating by Analogy as basic methodology, augment with commercial cost estimating tools.**
 - Build database of ‘comparables’ – existing ESE and other data activities.**
 - Develop cost estimating relationships through analysis of the comparables data base.**
 - Test against independent cases, expand database, revise and improve model.**
 - Provide data service provider cost estimates, single and architectures.**
 - Provide a portable capability to enable users to generate their own cost estimates.**

Study Team and Milestones

Study Lead: Vanessa Griffin, ESDIS/SO

Study Team: Bud Booth, Greg Hunolt, David Torrealba – SGT, Bruce Barkstrom – LaRC DAAC, Claude Frenner – NASA HQ

Milestones:

- October 1, 2001 - Start**
- January 16, 2002 - Strawman Levels of Service / Requirements:**
 - 1. Strawman general data service provider levels of service / requirements (Workshop Paper 1);
 - 2. Working list of data service provider types (Workshop Paper 2);
 - 3. Mapping of general LOS / requirements set to data service provider types (Workshop Paper 3).
- January 2002 - Began building comparables database**
- February 5-7, 2002 – Community Workshop**
- March 31, 2002 - Revised Requirements / Levels of Service**
- June 1, 2002 - Prototype Cost Estimation Model**
- June 2002 - Community Workshop – Evaluate Prototype Cost Model**
- Continue database building, model evaluation and refinement...**